



Bibliography of Nitrogen Studies on the Mississippi River

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Overview

- **70 Citations**
 - **Studies (35)**
 - **Tools and Techniques (34)**
 - **Strategies for Management (1)**
- **Sources**
 - **Environmental Laboratory - Products**
 - **Coastal and Hydraulics Laboratory – Publications**
 - **Geotechnical and Structural Laboratory - Publications**
 - **The NAWQA Bibliography**
 - **National Water-Quality Assessment (NAWQA) Publications**



Trends

- **Predominantly early 1990's to present**
 - **No work on Mississippi prior to 1990?**
 - **Function of Agencies reporting methods**
 - **Many agencies studying various metrics along River**
- **Importance**
 - **Determining baseline conditions**
 - **Model calibration**



Trends

- Half of publications on Upper Mississippi River
 - Upper Mississippi and Illinois River Navigation Study
 - Many agencies studying various metrics along River
 - Standardize reporting format



Trends



- 9 publications regarding N and habitat/biota
 - Not historically ERDC or USGS mission
 - Other agencies, state Fish and Wildlife and U.S. Fish and Wildlife



U.S. Army Corps of Engineers – Environmental Operating Principles (Flowers 2002)

- 1. Strive for environmental sustainability**
- 2. Interdependence of life and the physical environment**
- 3. Seek balance between human development and natural systems**
- 4. Accept corporate accountability**
- 5. Assess and mitigate impacts to environment**
- 6. Build and share information base for understanding of environment and our work**
- 7. Respect other views and interests; listen and learn**



Recommendations



- **Develop Bibliography further**
- **Prioritize Information Needs**
 - Earlier studies
 - Lower Miss work
 - Biota/habitat work
 - Future ERDC work
- **House on Information Depot**



Questions?

